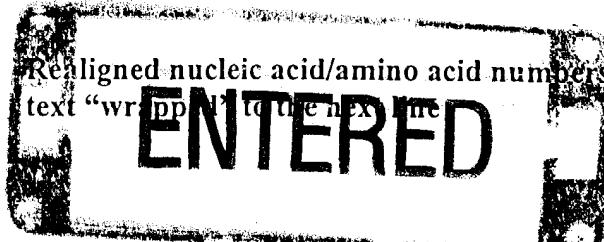


1Fwo

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/788,625

CRF Edit Date: 9/3/04
Edited by: 102



Corrected the SEQ ID NO. Sequence numbers edited were:

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

____ Deleted: _____ invalid beginning/end-of-file text ; _____ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

____ Moved responses to same line as heading/numeric identifier, specifically:

____ Other:



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004
TIME: 14:29:13Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09032004\J788625.raw

3 <110> APPLICANT: Tsurushita, Naoya
 4 Kumar, Shankar
 5 Vasquez, Maximiliano
 7 <120> TITLE OF INVENTION: Humanized Chicken Antibodies
 9 <130> FILE REFERENCE: 05882.0044.NPUS02
 11 <140> CURRENT APPLICATION NUMBER: 10/788,625
 C--> 12 <141> CURRENT FILING DATE: 2004-02-26
 14 <160> NUMBER OF SEQ ID NOS: 103
 16 <170> SOFTWARE: PatentIn version 3.2
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 378
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Chicken
 23 <400> SEQUENCE: 1
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 26 cgtctgcaaggcctccgggttcacccatcgatgtctctgggtgcgacaggc 120
 28 gcccggcaaggggctggaaatcgctcgatattaccaacactggtaggaccagaagata 180
 30 cggggcgccgtgtgaaggggccgtgccaccatctcgaggacaacgggcaga 240
 32 gctgcagctaaacaacctaaggctgaggacaccggcacc tactactgcgc 300
 34 tgtaattatctgttcttatgttggtgtgc tgtaacatcaacgcatggggcac 360
 36 cgaagtcatcgatctccatc 378
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 40 <211> LENGTH: 126
 41 <212> TYPE: PRT
 42 <213> ORGANISM: Chicken
 44 <400> SEQUENCE: 2
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 47 1 5 10 15
 50 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 51 20 25 30
 54 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
 55 35 40 45
 58 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val
 59 50 55 60
 62 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
 63 65 70 75 80
 66 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
 67 85 90 95
 70 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn
 71 100 105 110
 74 Ile Asn Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
 75 115 120 125
 78 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\09032004\J788625.raw

79 <211> LENGTH: 312
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 81 <213> ORGANISM: chicken
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 86 ctccgggggt tacagcggt attatggctg gtaccaggag aaatcacctg gcagtgcggc 120
 88 tgtcaactgtg atctatgaca acaccaggag accctcgac atcccttac gattctccgg 180
 90 ttccaaatcc ggctccacag ccacattaac catcaactggg gtccaagccg acgacgaggc 240
 92 tgtctatttc tgtggacct gggacagcag ccgtgttggt atatttgggg cgggacaac 300
 94 cctgaccgtc ct 312
 97 <210> SEQ ID NO: 4
 98 <211> LENGTH: 104
 99 <212> TYPE: PRT
 100 <213> ORGANISM: Chicken
 102 <400> SEQUENCE: 4
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 105 1 5 10 15
 108 Lys Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp Tyr Gln
 109 20 25 30
 112 Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Asp Asn Thr
 113 35 40 45
 116 Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly
 117 50 55 60
 120 Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Asp Asp Glu Ala
 121 65 70 75 80
 124 Val Tyr Phe Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe Gly
 125 85 90 95
 128 Ala Gly Thr Thr Leu Thr Val Leu
 129 100
 132 <210> SEQ ID NO: 5
 133 <211> LENGTH: 30
 134 <212> TYPE: PRT
 135 <213> ORGANISM: Homo sapiens
 137 <400> SEQUENCE: 5
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 140 1 5 10 15
 143 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
 144 20 25 30
 147 <210> SEQ ID NO: 6
 148 <211> LENGTH: 14
 149 <212> TYPE: PRT
 150 <213> ORGANISM: Homo sapiens
 152 <400> SEQUENCE: 6
 154 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
 155 1 5 10
 158 <210> SEQ ID NO: 7
 159 <211> LENGTH: 32
 160 <212> TYPE: PRT
 161 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\09032004\J788625.raw

163 <400> SEQUENCE: 7
 165 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
 166 1 5 10 15
 169 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
 170 20 25 30
 173 <210> SEQ ID NO: 8
 174 <211> LENGTH: 9
 175 <212> TYPE: PRT
 176 <213> ORGANISM: Homo sapiens
 178 <400> SEQUENCE: 8
 180 Trp Gly Gln Gly Thr Leu Val Thr Val
 181 1 5
 184 <210> SEQ ID NO: 9
 185 <211> LENGTH: 22
 186 <212> TYPE: PRT
 187 <213> ORGANISM: Homo sapiens
 189 <400> SEQUENCE: 9
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 195 Thr Val Arg Ile Thr Cys
 196 20
 199 <210> SEQ ID NO: 10
 200 <211> LENGTH: 15
 201 <212> TYPE: PRT
 202 <213> ORGANISM: Homo sapiens
 204 <400> SEQUENCE: 10
 206 Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
 207 1 5 10 15
 210 <210> SEQ ID NO: 11
 211 <211> LENGTH: 32
 212 <212> TYPE: PRT
 213 <213> ORGANISM: Homo sapiens
 215 <400> SEQUENCE: 11
 217 Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn Thr Ala Ser
 218 1 5 10 15
 221 Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
 222 20 25 30
 225 <210> SEQ ID NO: 12
 226 <211> LENGTH: 11
 227 <212> TYPE: PRT
 228 <213> ORGANISM: Homo sapiens
 230 <400> SEQUENCE: 12
 232 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
 233 1 5 10
 236 <210> SEQ ID NO: 13
 237 <211> LENGTH: 378
 238 <212> TYPE: DNA
 239 <213> ORGANISM: Homo sapiens
 241 <400> SEQUENCE: 13

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

242 tgagggtcag ttgggtggagt ccggagggtgg actcgtgcag cctggaggaa gcctcaggct 60
 244 cagctgcgcc gcctccgggt tcaccttcag tagttacagc atgctctggg tgcgacaggc 120
 246 gcctggcaag ggactggaat acgtcgctga aattaccaac actggtagga ccagaagata 180
 248 cggagctgcg gtgaagggcc gtgccaccat ctgcagggac aacgccaaga acacagtgt 240
 250 cctgcagatg aacagcctca gggctgagga caccgcgtg tactactgcg ccagaagtag 300
 252 tgtttattct tgttcttatg gttggtgtgc tggtaacatc aacgcattgg gccaggaaac 360
 254 cctggtcacc gtctcctc 378
 257 <210> SEQ ID NO: 14
 258 <211> LENGTH: 126
 259 <212> TYPE: PRT
 260 <213> ORGANISM: Homo sapiens
 262 <400> SEQUENCE: 14
 264 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 265 1 5 10 15
 268 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 269 20 25 30
 272 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
 273 35 40 45
 276 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val
 277 50 55 60
 280 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 281 65 70 75 80
 284 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 285 85 90 95
 288 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn
 289 100 105 110
 292 Ile Asn Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 293 115 120 125
 296 <210> SEQ ID NO: 15
 297 <211> LENGTH: 315
 298 <212> TYPE: DNA
 299 <213> ORGANISM: Homo sapiens
 301 <400> SEQUENCE: 15
 302 tagctctgag ctgactcagc cgccttcagt gtcagtggcc ctgggacaga ccgtcaggat 60
 304 cacctgtcc ggagggtaca ggggttattta tggctggta cagcagaaac ctggccaggc 120
 306 tcctgtcact gtgattttagt acaacaccag gagaccctcg gacatccctt cacattctc 180
 308 cggttccaaa tccggctcca cagccacatt aaccatca gtagtccaaag ccgaggacga 240
 310 ggctgactat tactgtggga cctgggacag cagccgtgtt ggtatatttg gaggtggac 300
 312 aaaagctgacc gtctc 315
 315 <210> SEQ ID NO: 16
 316 <211> LENGTH: 105
 317 <212> TYPE: PRT
 318 <213> ORGANISM: Homo sapiens
 320 <400> SEQUENCE: 16
 322 Ser Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Leu Gly Gln
 323 1 5 10 15
 326 Thr Val Arg Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp
 327 20 25 30
 330 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val Ile Tyr Asn

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\09032004\J788625.raw

331	35	40	45	
334	Thr Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser			
335	50	55	60	
338	Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp Glu			
339	65	70	75	80
342	Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe			
343	85	90	95	
346	Gly Gly Gly Thr Lys Leu Thr Val Leu			
347	100	105		
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351	<211> LENGTH: 27			
352	<212> TYPE: DNA			
353	<213> ORGANISM: Artificial			
355	<220> FEATURE:			
356	<223> OTHER INFORMATION: Synthetic Primer			
358	<400> SEQUENCE: 17			
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363	<211> LENGTH: 31			
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365	<213> ORGANISM: Artificial			
367	<220> FEATURE:			
368	<223> OTHER INFORMATION: Synthetic Primer			
370	<400> SEQUENCE: 18			
371	cccgccgccc acaacggttt ggagggacct c			31
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375	<211> LENGTH: 30			
376	<212> TYPE: DNA			
377	<213> ORGANISM: Artificial			
379	<220> FEATURE:			
380	<223> OTHER INFORMATION: Synthetic Primer			
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387	<211> LENGTH: 33			
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404	<223> OTHER INFORMATION: Synthetic Primer			
406	<400> SEQUENCE: 21			
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004
TIME: 14:29:14

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09032004\J788625.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40
Seq#:41,42,43,44,45,46,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68
Seq#:69,70,87,88

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt
 Output Set: N:\CRF4\09012004\J788625.raw

W--> 1 05882.0044.NPUS02 *delete*

4 <110> APPLICANT: Tsurushita, Naoya
 5 Kumar, Shankar
 6 Vasquez, Maximiliano
 8 <120> TITLE OF INVENTION: Humanized Chicken Antibodies
 10 <130> FILE REFERENCE: 05882.0044.NPUS02
 12 <140> CURRENT APPLICATION NUMBER: 10/788,625

C--> 13 <141> CURRENT FILING DATE: 2004-02-26

15 <160> NUMBER OF SEQ ID NOS: 103

17 <170> SOFTWARE: PatentIn version 3.2

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 378

21 <212> TYPE: DNA

22 <213> ORGANISM: Chicken

24 <400> SEQUENCE: 1

25 tgccgtgacg ttggacgagt ctggggcg gg cctccagacg cccggaggag cgctcagcct 60
 27 cgtctgcaag gcctccgggt tcacacctcg tagttacagc atgctctggg tgcgacaggc 120
 29 gcccggcaag gggctggaat acgtcgctga aattaccaac actggtagga ccagaagata 180
 31 cggggcggcg gtgaaggggcc gtgccaccat ctcgaggac aacgggcaga gcacagttag 240
 33 gctgcagctg aacaacctca gggctgagga caccggcacc tactactcgcc ccagaagtag 300
 35 tgttatttct tgttctttagt gtttgtgtgc tggtaacatc aacgcattggg gccacgggac 360
 37 cgaagtcatc gtctcctc 378

40 <210> SEQ ID NO: 2

41 <211> LENGTH: 126

42 <212> TYPE: PRT

43 <213> ORGANISM: Chicken

45 <400> SEQUENCE: 2

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48	1				5			10			15				
51	Ala	Leu	Ser	Leu	Val	Cys	Lys	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Tyr
52					20			25			30				
55	Ser	Met	Leu	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Tyr
56		35				40					45				
59	Ala	Glu	Ile	Thr	Asn	Thr	Gly	Arg	Thr	Arg	Arg	Tyr	Gly	Ala	Ala
60		50				55				60					
63	Lys	Gly	Arg	Ala	Thr	Ile	Ser	Arg	Asp	Asn	Gly	Gln	Ser	Thr	Val
64	65				70				75			80			
67	Leu	Gln	Leu	Asn	Asn	Leu	Arg	Ala	Glu	Asp	Thr	Gly	Thr	Tyr	Tyr
68						85			90			95			
71	Ala	Arg	Ser	Ser	Val	Tyr	Ser	Cys	Ser	Tyr	Gly	Trp	Cys	Ala	Gly
72					100				105			110			
75	Ile	Asn	Ala	Trp	Gly	His	Gly	Thr	Glu	Val	Ile	Val	Ser	Ser	
76					115			120			125				

*Does Not Comply
Correcting Diskette Needed*

pp 1,6

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

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87	ctccgggggt	tacagcggt	attatggctg	gtaccagcag	aatcacctg	gcagtgcgg	120
89	tgtcactgtg	atctatgaca	acaccaggag	accctcgac	atcccttcac	gattctccgg	180
91	ttccaaatcc	ggctccacag	ccacattaac	catcaactggg	gtccaagccg	acgacgaggc	240
93	tgtctatttc	tgtggacact	gggacagcag	ccgtgttgg	atatttgggg	ccgggacaac	300
95	cctgaccgtc	ct					312

98 <210> SEQ ID NO: 4
 99 <211> LENGTH: 104
 100 <212> TYPE: PRT
 101 <213> ORGANISM: Chicken
 103 <400> SEQUENCE: 4

105	Ala	Leu	Thr	Gln	Pro	Ala	Ser	Val	Ser	Ala	Asn	Leu	Gly	Gly	Thr	Val	
106	1					5			10			15					
109	Lys	Ile	Thr	Cys	Ser	Gly	Gly	Tyr	Ser	Gly	Tyr	Tyr	Gly	Trp	Tyr	Gln	
110						20			25			30					
113	Gln	Lys	Ser	Pro	Gly	Ser	Ala	Pro	Val	Thr	Val	Ile	Tyr	Asp	Asn	Thr	
114						35			40			45					
117	Arg	Arg	Pro	Ser	Asp	Ile	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Lys	Ser	Gly	
118						50			55			60					
121	Ser	Thr	Ala	Thr	Leu	Thr	Ile	Thr	Gly	Val	Gln	Ala	Asp	Asp	Glu	Ala	
122						65			70			75			80		
125	Val	Tyr	Phe	Cys	Gly	Thr	Trp	Asp	Ser	Ser	Arg	Val	Gly	Ile	Phe	Gly	
126						85			90			95					
129	Ala	Gly	Thr	Thr	Leu	Thr	Val	Leu									
130						100											
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135	<212>	TYPE:	PRT														
136	<213>	ORGANISM:	Homo sapiens														
138	<400>	SEQUENCE:	5														
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141	1					5			10			15					
144	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser			
145						20			25			30					
148	<210>	SEQ	ID	NO:	6												
149	<211>	LENGTH:	14														
150	<212>	TYPE:	PRT														
151	<213>	ORGANISM:	Homo sapiens														
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156	1					5			10								
159	<210>	SEQ	ID	NO:	7												
160	<211>	LENGTH:	32														
161	<212>	TYPE:	PRT														

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004
TIME: 16:34:46

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\09012004\J788625.raw

162 <213> ORGANISM: Homo sapiens
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166 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
167 1 5 10 15
170 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
171 20 25 30
174 <210> SEQ ID NO: 8
175 <211> LENGTH: 9
176 <212> TYPE: PRT
177 <213> ORGANISM: Homo sapiens
179 <400> SEQUENCE: 8
181 Trp Gly Gln Gly Thr Leu Val Thr Val
182 1 5
185 <210> SEQ ID NO: 9
186 <211> LENGTH: 22
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
190 <400> SEQUENCE: 9
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193 1 5 10 15
196 Thr Val Arg Ile Thr Cys
197 20
200 <210> SEQ ID NO: 10
201 <211> LENGTH: 15
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 10
207 Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
208 1 5 10 15
211 <210> SEQ ID NO: 11
212 <211> LENGTH: 32
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 11
218 Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn Thr Ala Ser
219 1 5 10 15
222 Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
223 20 25 30
226 <210> SEQ ID NO: 12
227 <211> LENGTH: 11
228 <212> TYPE: PRT
229 <213> ORGANISM: Homo sapiens
231 <400> SEQUENCE: 12
233 Phe Gly Gly Thr Lys Leu Thr Val Leu Gly
234 1 5 10
237 <210> SEQ ID NO: 13
238 <211> LENGTH: 378
239 <212> TYPE: DNA
240 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

242 <400> SEQUENCE: 13
 243 tgaggtgcag ttggtgaggc cccgagggtgg actcgtgcag cctggaggaa gcctcaggct 60
 245 cagctgcgcc gcctccgggt tcaccttcag tagttacago atgctctggg tgcgacaggc 120
 247 gcctggcaag ggactggaat acgtcgctga aattaccaac actggtagga ccagaagata 180
 249 cggagctgcg gtgaaggggcc gtgccaccat ctgcaggaa aacgccaaga acacagtgt 240
 251 cctgcagatg aacagcctca gggctgagga caccgcctg tactactgcg ccagaagtag 300
 253 tgtttattct tgttcttatg gtttgtgtgc tggttaacatc aacgcattggg gccaggaaac 360
 255 cctggtcacc gtctcctc 378
 258 <210> SEQ ID NO: 14
 259 <211> LENGTH: 126
 260 <212> TYPE: PRT
 261 <213> ORGANISM: Homo sapiens
 263 <400> SEQUENCE: 14
 265 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 266 1 5 10 15
 269 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 270 20 25 30
 273 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
 274 35 40 45
 277 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val
 278 50 55 60
 281 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 282 65 70 75 80
 285 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 286 85 90 95
 289 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn
 290 100 105 110
 293 Ile Asn Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 294 115 120 125
 297 <210> SEQ ID NO: 15
 298 <211> LENGTH: 315
 299 <212> TYPE: DNA
 300 <213> ORGANISM: Homo sapiens
 302 <400> SEQUENCE: 15
 303 tagctctgag ctgactcagc cgccttcagt gtcagtggcc ctgggacaga ccgtcaggat 60
 305 cacctgtcc ggaggttaca gcggctatta tggctggta cagcagaaac ctggccaggc 120
 307 tcctgtcaact gtgattttatg acaacaccag gagaccctcg gacatccctt cacattctc 180
 309 cggttccaaa tccggctcca cagccacatt aaccatcaact ggagtccaaag ccgaggacga 240
 311 ggctgactat tactgtggga cctgggacag cagccgtttt ggtatatttgg gaggtgggac 300
 313 aaagctgacc gtcc 315
 316 <210> SEQ ID NO: 16
 317 <211> LENGTH: 105
 318 <212> TYPE: PRT
 319 <213> ORGANISM: Homo sapiens
 321 <400> SEQUENCE: 16
 323 Ser Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Leu Gly Gln
 324 1 5 10 15
 327 Thr Val Arg Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp
 328 20 25 30

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004
TIME: 16:34:46

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\09012004\J788625.raw

```

331 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val Ile Tyr Asp Asn
332      35          40          45
335 Thr Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser
336      50          55          60
339 Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp Glu
340 65      70          75          80
343 Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe
344      85          90          95
347 Gly Gly Gly Thr Lys Leu Thr Val Leu
348      100         105
351 <210> SEQ ID NO: 17
352 <211> LENGTH: 27
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Synthetic Primer
359 <400> SEQUENCE: 17
360 gggggcgcca gcggtcgcc ctgtgtc                                27
363 <210> SEQ ID NO: 18
364 <211> LENGTH: 31
365 <212> TYPE: DNA
366 <213> ORGANISM: Artificial
368 <220> FEATURE:
369 <223> OTHER INFORMATION: Synthetic Primer
371 <400> SEQUENCE: 18
372 cccggcgccg acaacggttt ggagggacct c                                31
375 <210> SEQ ID NO: 19
376 <211> LENGTH: 30
377 <212> TYPE: DNA
378 <213> ORGANISM: Artificial
380 <220> FEATURE:
381 <223> OTHER INFORMATION: Synthetic Primer
383 <400> SEQUENCE: 19
384 gggtagatccatggact ctccgtctg                                30
387 <210> SEQ ID NO: 20
388 <211> LENGTH: 33
389 <212> TYPE: DNA
390 <213> ORGANISM: Artificial
392 <220> FEATURE:
393 <223> OTHER INFORMATION: Synthetic Primer
395 <400> SEQUENCE: 20
396 cccgctcagc cctccaaatt ttcatcctgg atc                                33
399 <210> SEQ ID NO: 21
400 <211> LENGTH: 45
401 <212> TYPE: DNA
402 <213> ORGANISM: Artificial
404 <220> FEATURE:
405 <223> OTHER INFORMATION: Synthetic Primer
407 <400> SEQUENCE: 21

```

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6

<400> 103

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val
20 25 30

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile
35 40 45

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu
50 55 60

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Trp Gly Gln Gly
65 70 75 80

Thr Leu Val Thr Val Ser Ser
85

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004
TIME: 16:34:47

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\09012004\J788625.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40
Seq#:41,42,43,44,45,46,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68
Seq#:69,70,87,88

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:47

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date